

# Corbett's Conundrums

31<sup>st</sup> December

Choose any four digit number, where the first digit is larger than the last.

Reverse your number and subtract it from your original.

Taking your answer, add it to it's reverse.

Note your final answer and repeat this process five more times.

Try to make conjectures about your starting number and the final answer.

Try to prove algebraically.

